

Amendments to the Claims

Please cancel Claims 1-6 without prejudice or disclaimer.

Please add Claims 7-10 as follows.

1.-6. (Cancelled)

7. (New) An imaging apparatus comprising:

a photoelectric conversion area including a plurality of photoelectric converters;

a controller for controlling a first mode for continuously reading out first image data

and second image data from the photoelectric conversion area, the first image data being

acquired by accumulating charge in the photoelectric conversion area during a first charge

accumulation time and the second image data being acquired by accumulating charge in the

photoelectric conversion area during a second charge accumulation time which is different from

the first charge accumulation time, and a second mode for continuously reading out first

correction data and second correction data from the photoelectric conversion area, the first

correction data being acquired by accumulating charge in the photoelectric conversion area

shielded by a shutter during the first charge accumulation time and the second correction data

being acquired by accumulating charge in the photoelectric conversion area shielded by the

shutter during the second charge accumulation time, wherein the second mode operates after the

completion of the first mode; and

an image processor for correcting the first image data by using the first correction data,

and correcting the second image data by using the second correction data.

8. (New) An imaging apparatus according to Claim 7,

wherein the controller reads out the first image data from the photoelectric conversion area and then reads out the second image data from the photoelectric conversion area in the first mode, and reads out the first correction data from the shielded photoelectric conversion area and then reads out the second correction data from the shielded photoelectric conversion area in the second mode.

9. (New) An imaging apparatus according to Claim 7,

wherein the first charge accumulation time is shorter than the second charge accumulation time, and the controller reads out the first correction data from the shielded photoelectric conversion area and then reads out the second correction data from the shielded photoelectric conversion area in the second mode, regardless of the reading order of the first image data and the second image data in the first mode.

10. (New) An imaging apparatus according to Claim 7,

wherein the controller continuously reads out the first image data, the second image data and third image data from the photoelectric conversion area, the third image data being acquired by accumulating charge in the photoelectric conversion area during the first charge accumulation time in the first mode, and the image processor corrects the third image data by

using the first correction data.